

SOLID HIGHPOLYMER TYPE FUEL CELL

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Abstract of JP2000268828

PROBLEM TO BE SOLVED: To provide a fuel cell giving a stable output for a long period of time using an electrode excellent in the water repellency and anti-corrosiveness. **SOLUTION:** This solid highpolymer type fuel cell has an electrolyte consisting of an ion exchange resin and a gas diffusion electrode including an electrode catalyst of such a structure that platinum or its alloy is carried by a carbon carrier whose mean lattice plane spacing d_{002} of [002] plane is 0.337-0.348 nm, size $L_c(002)$ of crystallite is 3-18 nm, and specific surface area is 70-800 m²/g. The carbon carrier is preferably formed by subjecting carbon black or activated carbon to a heat treatment at 1800-2500 deg.C.

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